

SECTION 02 41 00
DEMOLITION

PART 1 GENERAL

1.01 REFERENCES

- A. The following is a list of standards which may be referenced in this Section:
1. American National Standards Institute (ANSI): A10.6, Safety Requirements for Demolition Operations.
 2. Occupational Safety and Health Administration (OSHA), U.S. Code of Federal Regulations (CFR) Title 29 Part 1926—Occupational Safety and Health Regulations for Construction.
 3. Environmental Protection Agency (EPA), U.S. Code of Federal Regulations (CFR), Title 40:
 - a. Part 61—National Emission Standards for Hazardous Air Pollutants.
 - b. Part 82—Protection of Stratospheric Ozone.
 - c. Part 273—Standards for Universal Waste Management.

1.02 DEFINITIONS

- A. ACM: Asbestos-containing material.
- B. Demolition: Dismantling, razing, destroying, or wrecking of any fixed building or pavement or any part thereof.
- C. Salvage/Salvageable: Remove and deliver, to the specified location(s), the equipment, building materials, or other items so identified to be saved from destruction, damage, or waste; such property to remain that of the United States Government. Title of material released by the United States Government shall revert to the Contractor.
- D. Universal Waste Lamp: In accordance with 40 CFR 273, the bulb or tube portion of an electric lighting device, examples of which include, but are not limited to, fluorescent, high-intensity discharge, neon, mercury vapor, high-pressure sodium, and metal halide lamps.
- E. Universal Waste Thermostat: A temperature control device that contains metallic mercury in an ampule attached to a bimetal sensing element, and mercury-containing ampules that have been removed from these temperature control devices in compliance with the requirements of 40 CFR 273.

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1.03 SUBMITTALS

A. Informational Submittals:

1. Submit proposed Demolition Plan, in accordance with requirements specified herein, for approval before such Work is started.
2. Submit copies of any notifications, authorizations and permits required to perform the Work.
3. Submit a shipping receipt or bill of lading for all containers of ozone depleting substance (ODS) shipped.
4. Submit a shipping receipt or bill of lading for all universal waste shipped.

1.04 REGULATORY AND SAFETY REQUIREMENTS

- A. When applicable, demolition Work shall be accomplished in strict accordance with 29 CFR 1926-Subpart T.
- B. Comply with federal, state, and local hauling and disposal regulations. In addition to the requirements of the General Conditions, Contractor's safety requirements shall conform to ANSI A10.6.
- C. Furnish timely notification of this demolition project to applicable federal, state, regional, and local authorities in accordance with 40 CFR 61-Subpart M.

1.05 DEMOLITION PLAN

- A. Demolition Plan shall provide for safe conduct of the Work and shall include:
 1. Detailed description of methods and equipment to be used for each operation.
 2. The Contractor's planned sequence of operations, including coordination with other work in progress.
 3. Disconnection schedule of utility services.
 4. Reconnection schedule of utility services.

1.06 SEQUENCING AND SCHEDULING

- A. The Work of this Specification shall not commence until Contractor's Demolition Plan has been approved by the Contracting Officer.

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PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.01 EXISTING FACILITIES TO BE DEMOLISHED

A. Facilities:

1. Buildings and adjacent designated areas scheduled for complete demolition are as shown.
 - a. Building 16: One-story Structure with Mezzanine: 2,877 square feet constructed in 1969, remodeled in 2002, no known hazardous materials. Any hazardous materials identified during demolition shall be immediately brought to the attention of the Contracting Officer.
2. Other areas scheduled for selective demolition are as shown.

B. Structures:

1. Existing above-grade structures indicated shall be removed to 2 feet below grade.
2. Sidewalks, curbs, gutters and catch basins shall be removed as indicated.

C. Utilities and Related Equipment:

1. Notify Contracting Officer and appropriate utilities to turn off affected services at least 48 hours before starting demolition activities.
2. Remove existing utilities as indicated and terminate in a manner conforming to the nationally recognized code covering the specific utility.
3. When utility lines are encountered that are not indicated on the Drawings, notify Contracting Officer prior to further work in that area.
4. Remove meters and related equipment and deliver to a location as determined by the Contracting Officer.
5. Excavate and remove utility lines serving building to be demolished to a distance past the proposed bioretention excavation.
6. Provide a permanent leak-proof closure for water and gas lines.
7. Plug sewer lines with concrete to a minimum plug length of 5 feet to prevent groundwater infiltration.

D. Paving and Slabs:

1. Sawcut and remove concrete and asphaltic concrete paving and slabs as indicated to a depth of 6 inches below new finish grade.

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2. Provide neat sawcuts at limits of pavement removal as indicated.

E. Air-Conditioning Equipment:

1. Remove air-conditioning equipment without releasing chlorofluorocarbon refrigerants to the atmosphere in accordance with the Clean Air Act Amendment of 1990.
2. Recover all refrigerants prior to removing air-conditioning equipment and dispose of as specified in Paragraph Ozone Depleting Substances (ODS).
3. Turn in salvaged Class I ODS refrigerants as specified in Article Salvaged Materials and Equipment.

F. Cylinders and Canisters: Remove all fire suppression system cylinders and canisters and dispose as specified in Paragraph Ozone Depleting Substances (ODS).

G. Universal Waste:

1. Contractor shall examine structure for universal waste prior to demolition.
2. Universal Waste Lamps and Thermostats: Manage, contain, package, and label in strict accordance with 40 CFR 273.

3.02 BURNING

- A. The use of burning at the Site for the disposal of refuse and debris will not be permitted.

3.03 BACKFILL

- A. Do not use demolition debris as backfill material.
- B. Fill excavations, open basements and other hazardous openings to existing ground level or foundation level of new construction in accordance with Section 31 23 23, Fill and Backfill.

3.04 TITLE TO MATERIALS

- A. Title to equipment and materials resulting from demolition is vested in the Contractor upon approval by Contracting Officer of Contractor's Demolition Plan, and approval of list of specific items and material to be removed from Government Property.

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3.05 DISPOSITION OF MATERIAL

- A. Do not remove equipment and materials without approval of Contractor's Demolition Plan by Contracting Officer.
- B. Salvage equipment and material to the maximum extent possible.

3.06 SPECIALIZED SALVAGE

- A. Ozone Depleting Substances (ODS):
 - 1. Class I and Class II ODS are defined in Section 602(a) and (b), of The Clean Air Act. Prevent discharge of Class I and Class II ODS to the atmosphere. Place recovered ODS in cylinders meeting ARI Guideline K suitable for the type ODS (filled to no more than 80 percent capacity) and provide appropriate labeling.
 - 2. Dispose of all Class I and Class II ODS refrigerants in accordance with the Clean Air Act Amendment of 1990.
 - 3. Products, equipment and appliances containing ODS in a sealed, self-contained system (e.g., residential refrigerators and window air conditioners) shall be disposed of in accordance with 40 CFR 82.
- B. Fire Suppression Containers: Fire suppression system cylinders and canisters with electrical charges or initiators shall be deactivated prior to shipment. Also, safety caps shall be used to cover exposed actuation mechanisms and discharge ports on these special cylinders.

3.07 UNSALVAGEABLE MATERIAL

- A. Combustible material shall be disposed of off the Site.
- B. Universal Waste Lamps and Thermostats: Dispose of in strict accordance with 40 CFR 273.

3.08 CLEANUP

- A. Debris and rubbish shall be removed and transported in a manner that prevents spillage on streets or adjacent areas. Local regulations regarding hauling and disposal shall apply.

END OF SECTION